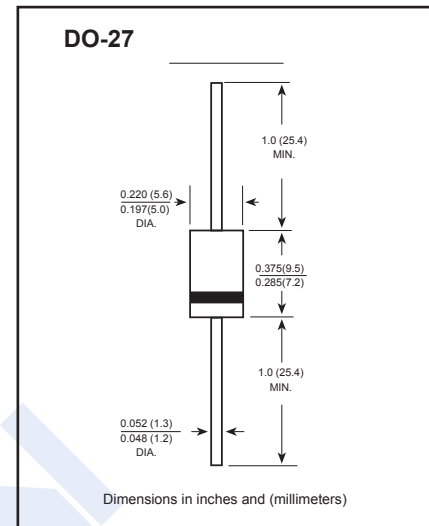


## Ultra Fast Recovery Diodes

## MUR405 ~ MUR4100

## ■ Features

- High Surge Capability
- Low Leakage
- Low Forward Voltage Drop
- Ultra Fast Switching Speed For High Efficiency

■ Absolute Maximum Ratings  $T_a = 25^\circ\text{C}$ 

Parameter	Symbol	MUR 405	MUR 410	MUR 415	MUR 420	MUR 440	MUR 460	MUR 480	MUR 4100	Unit
Repetitive Peak Reverse Voltage	$V_{RRM}$	50	100	150	200	400	600	800	1000	V
RMS Voltage	$V_{RMS}$	35	70	105	140	280	420	560	700	
Maximum DC Blocking Voltage	$V_{DC}$	50	100	150	200	400	600	800	1000	
Averaged Forward Current $T_a=55^\circ\text{C}$	$I_{FAV}$	4								A
Peak Forward Surge Current	$I_{FSM}$	150								
Typical thermal resistance	$R_{\theta JC}$	20								$^\circ\text{C/W}$
Junction Temperature	$T_j$	150								$^\circ\text{C}$
Storage Temperature	$T_{stg}$	-55 to 150								

■ Electrical Characteristics  $T_a = 25^\circ\text{C}$ 

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Forward voltage	MUR405-415	$I_F=4A, T_a = 25^\circ\text{C}$			1	V
	MUR420-460				1.35	
	MUR480-4100				1.85	
Reverse voltage leakage current	IR	$T_a = 25^\circ\text{C}$			10	uA
		$T_a = 100^\circ\text{C}$			50	
Reverse Recovery Time	MUR405-415	$I_F=0.5A, I_R=1A, I_{rr}=0.25A$			45	ns
	MUR420-460				60	
	MUR480-4100				75	
Junction Capacitance	MUR405-460	$V_R=4V, f=1\text{MHz}$			80	pF
	MUR480-4100				50	

## Ultra Fast Recovery Diodes

### MUR405 ~ MUR4100

■ Typical Characteristics

Figure 1  
Typical Forward Characteristics

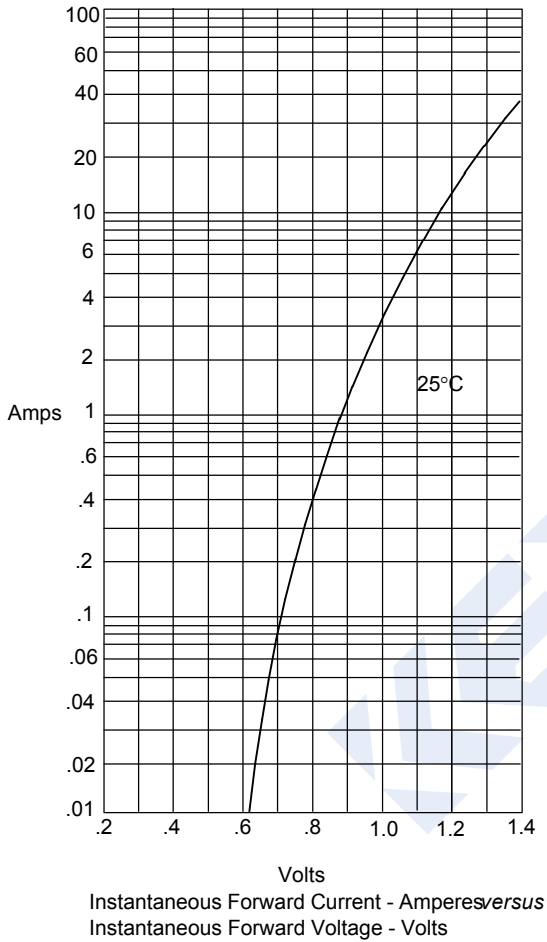


Figure 2  
Forward Derating Curve

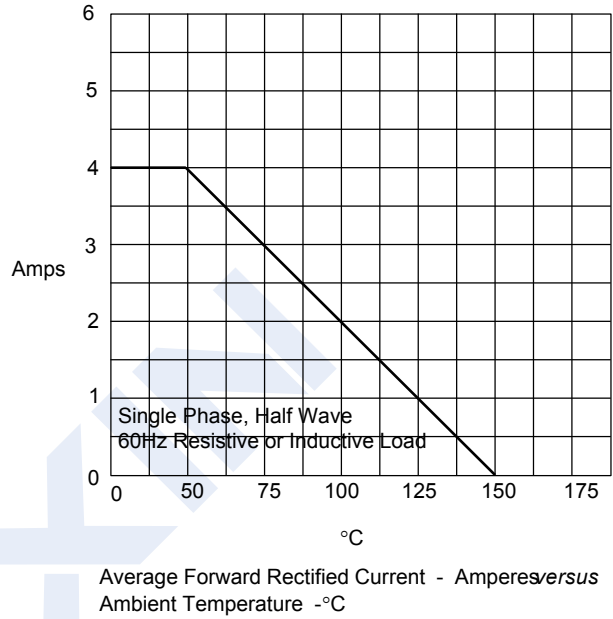


Figure 3  
Peak Forward Surge Current

